

In re Application of:

Jay M. Short

Application No.: 09/825,852

Filed: April 3, 2001

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PATENT

Attorney Docket No.: INVIT1250-4



VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE ABSTRACT:

MORPHATIDES – NOVEL SHAPE AND STRUCTURE LIBRARIES

ABSTRACT OF THE DISCLOSURE

This invention provides a method for identifying one or more complexes from a library [of complexes], wherein [said] the complex or complexes are selected for their ability to perform a preselected [or desired] function on a target molecule or [by] for having a preselected structure [, each complex being designated a morphatide, ]. Each complex is designated a morphatide. The [said] method [comprising] comprises: (a) preparing a library of morphatides, comprised of: (i) a scaffolding component [selected from the group consisting of nucleic acid, nucleic acid like molecule or nucleic acid analog having one or more regions of randomized sequence]; (ii) one or more linker components; and (iii) one or more agent molecules [or type of agent molecules], linked to the scaffolding component by one or more type of linker components; and (b) screening the library of morphatides [prepared in step (a)] by [contacting, binding, or] associating the morphatides with one or more suitable target molecules upon which a morphatide performs a preselected or desired function or to which a morphatide binds or associates through a pre-selected structure of [said] the morphatide [under conditions permitting said morphatide to perform said preselected or desired function on said target molecules or permitting said morphatide to bind or associate with said target molecules through the preselected structure]; (c) separating the morphatides performing the preselected [or desired] function or [biding] binding or associating through the preselected structure, from the library [of morphatides and target molecules; thereby identifying one or more complexes from a library of complexes, wherein said complex or complexes are selected for their ability to perform a preselected or desired function on a target molecule or by having a pre-selected structure].

IN THE SPECIFICATION:

This application is a continuation of U.S.S.N. 09/061,831, filed April 16, 1998, which is a continuation-in-part of U.S.S.N. 08/953,634 filed October 17, 1997, which is a continuation-in-part

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of U.S.S.N. 08/839,468 filed April 14, 19997, and claims the benefit of copending U.S. Provisional Application Serial No. 60/028,527 filed October 17, 1996.